

**PROPOSED FACULTY OF ENVIRONMENTAL SCIENCE FOR
NNAMDI AZIKIWE UNIVERSITY, AWKA, ANAMBRA STATE,
NIGERIA**

TOWARDS ACHIEVING UNIVERSAL DESIGN IN ACADEMIC BUILDINGS

BY

UGAH, UZODINMA KELECHI

(Matric No: 16PCA01303)

B.Sc.

MAY 2018

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BEING A DESIGN THESIS SUBMITTED TO THE DEPARTMENT OF ARCHITECTURE,
SCHOOL OF POSTGRADUATE STUDIES, COVENANT UNIVERSITY, OTA, OGUN STATE
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF THE DEGREE
OF MASTER OF SCIENCE IN ARCHITECTURE

MAY 2018

DECLARATION

I Ugah, Uzodinma Kelechi with Matriculation Number 16PCA01303 hereby declare that I carried out this research work, under the supervision of Arc A. B. Sholanke. This work has not been submitted for the award of any degree in any institution before now. I hereby submit it in partial fulfilment of the award of a Master of Science Degree in Architecture in Covenant University, Ota, Ogun State, Nigeria.

All sources of information and data used are duly acknowledged.

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Student's Signature and Date

CERTIFICATION

It is hereby certified that this thesis, written by UGAH UZODINMA KELECHI, was supervised by me and submitted to the Department of Architecture, College of Science and Technology, Covenant University, Ota, Ogun State.

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Signature and Date

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Signature and Date

DEDICATION

This research is dedicated to God Almighty for abundant grace, supernatural favour and mercy, and divine provisions. Secondly to my Father, Dr. A. D. Ugah for challenging me to undertake this programme and his unending support. Also to my Wife Adaku Agatha Ugah for her unflinching support, encouragement and prayers, my children for understanding my dream, and to my siblings, in-laws and friends for their encouragements.

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ABSTRACT

Every human being is different, we are diverse in our sizes, abilities and as we grow older we develop certain capabilities, abilities and disabilities and thus continue to change. When we understand our diversity as human beings, the need to design our built environment to suite the need of an ideal average human being becomes a fallacy and thus creates a burden on designers to create designs that has the capacity to adapt to the various needs and capacities of the intended users. This burden as resulted in the concept called Universal Design (UD).

This thesis introduces the concept of UD in details as well as proffering ways in which it can be achieved especially in an academic built environment using a proposed faculty of environmental science building for Nnamdi Azikiwe University Awka, Anambra State, Southeast of Nigeria. It outlines the significance of UD in such an environment while going further to state the influence of UD on teaching and learning. Attempt is made to list out the structures of UD in an academic built environment while looking at enabling laws and policies in building development legislations in Nigeria.

The research was carried out using extract from published related materials, personal interviews, and local and foreign case studies of building structures utilized for similar activities. From the result of the research, a faculty of environmental science building was designed using the various structures of UD thus achieving UD in the proposed building.